

Mamiya

SERVICE INSTRUCTIONS

for

Mamiya M645

M645_{1000S}

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Mamiya
CAMERA CO., LTD.
TOKYO, JAPAN

S.1.78-10-M645

General Specifications for *Mamiya* **M645**

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General Specification for Mamiya M645

Camera body

Camera Type :

6 x 4.5cm electronic focal-plane shutter SLR.

Film Type :

120 roll-film for 15 exposures,

220 roll-film for 30 exposures

Standard Lenses :

Mamiya-Sekor C (multi-coated)

80mm f/1.9, automatic diaphragm,

with meter coupler, 67mm filter size

Mamiya-Sekor C (multi-coated)

80mm f/2.8, automatic diaphragm,

with meter coupler, 58mm filter size

Lens Mount :

Mamiya M645 bayonet mount

Shutter : M645 1000S

B, 8--1/1000 sec.

Moving Coil Electronic Focal-Plane Shutter,

FP and X (1/60 sec.) synchronization,

Shutter release lock and shutter speed dial lock
provision

M645 500

B, 8--1/500 sec.

Moving Coil Electronic Focal-Plane Shutter,

FP and X (1/60 sec.) synchronization,

Shutter release lock provision

Battery Type :

One 6V silver-oxide battery

(Eveready 544, UCAR 544, Mallory PX28)

Focusing Method :

Each Mamiya-Sekor lens is equipped with its own
helicoid focusing mount

Focusing Screen :

The standard focusing screen, which is interchangeable, has three focusing aids, a central split-image rangefinder spot (wedge set at a 45° angle) surrounded by a micro-prism collar and outer ground glass ring.

A Fresnel lens assures corner-to-corner brightness, and 94% of the picture-taking area is visible.

Mirror :

Instant return, with mirror lock-up provision

Film Transport : For M645 1000S

A single revolution of the interchangeable film advance crank transports the film. The camera is equipped with double exposure prevention, but multiple exposure can be easily made.

For M645 500

Film advance knob equipped with crank, film transported with single turn of film advance crank.

Exposure Counter :

Progressive type, automatic reset, automatic changeover with insertion of 120/220 roll-film inserts

Battery Check :

Depressing B.C. button illuminates green L.E.D. if battery condition is satisfactory.

Multiple-Exposure :

Lowering multiple-exposure lever makes multiple-exposures possible; exposure counter does not move during multiple-exposures.

Delays Shutter Release : For only M645 1000S

Variable time delay of 5-10 seconds.

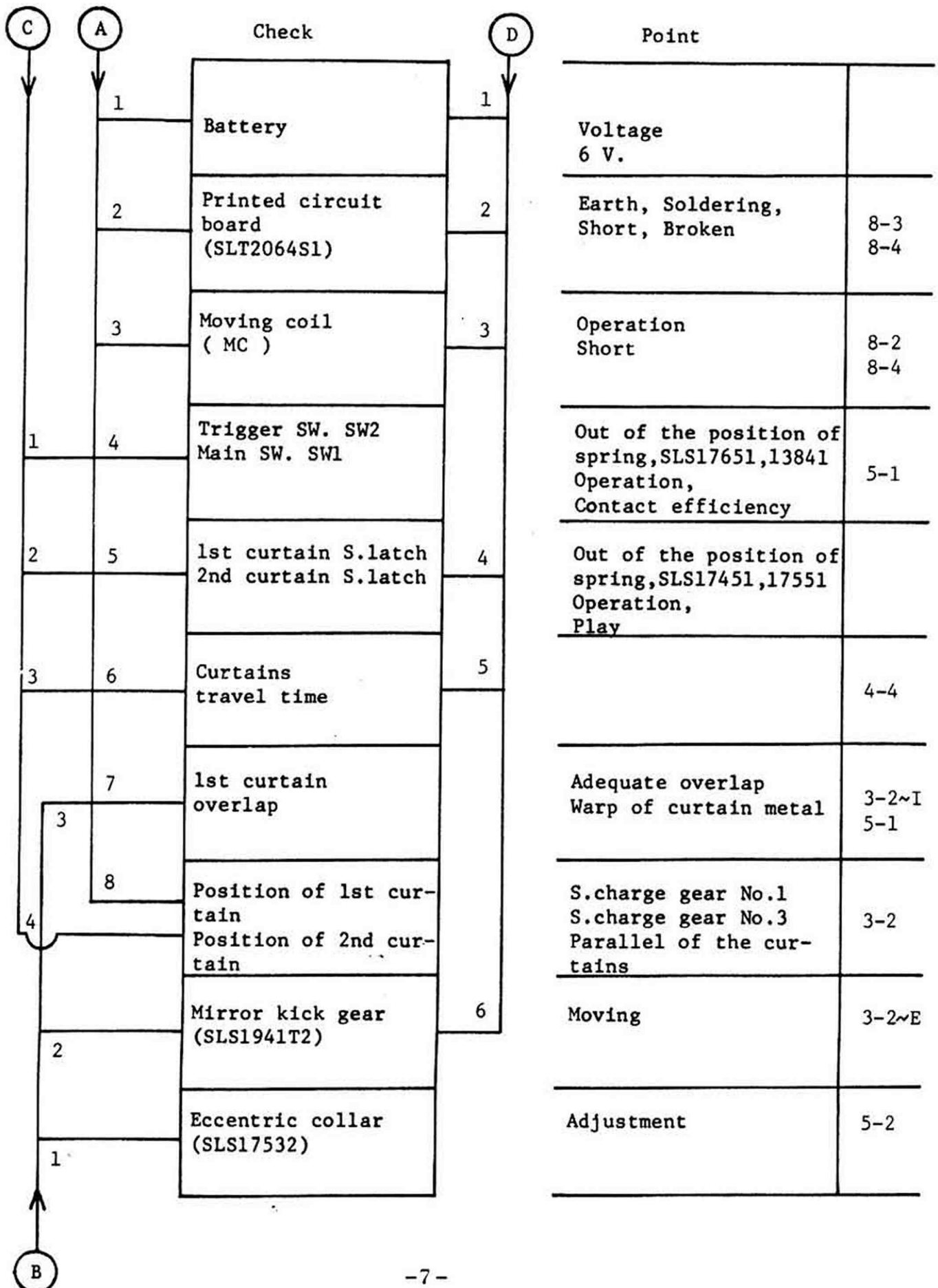
Depth-of-Field Preview Lever : For only M645 1000S

Spring-loaded, self-returning.

Trouble Shooting for *Mamiya* **M645**

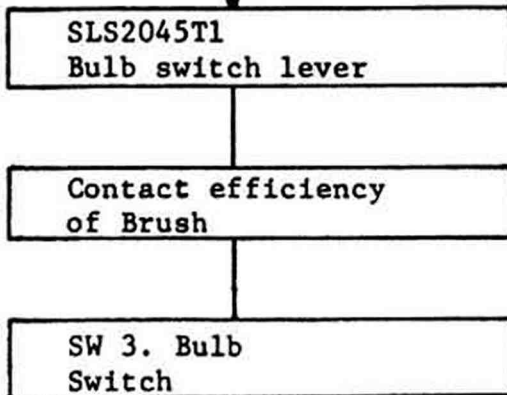
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- ✕ (A) Inaccurate Shutter speed at 1/1000ms (SLS 1/500ms)
 (B) Difference Shutter speed at Mirror UP
 (C) Shutter runs, but not exposed (Shutter Tester indication numeral not stop)
 (D) 2nd Curtain not run



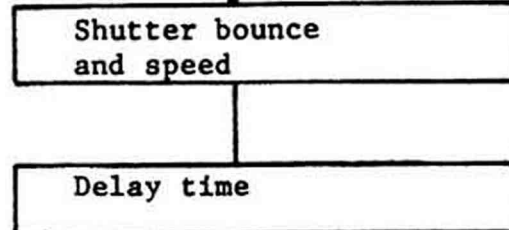
Malfunction of Bulb

(See 5-4)



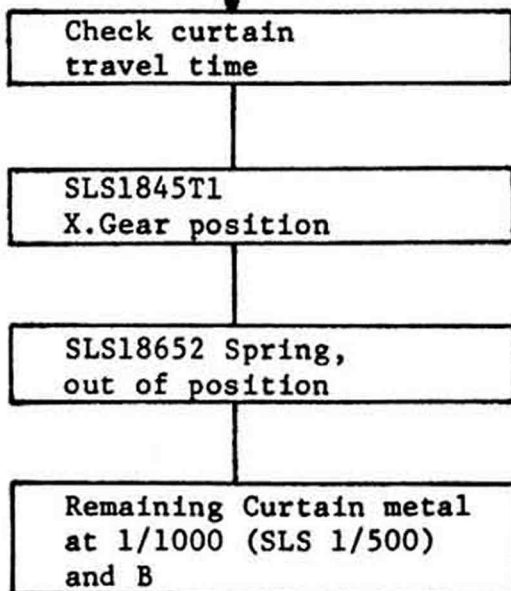
X.synchro. contact

(See 5-3)



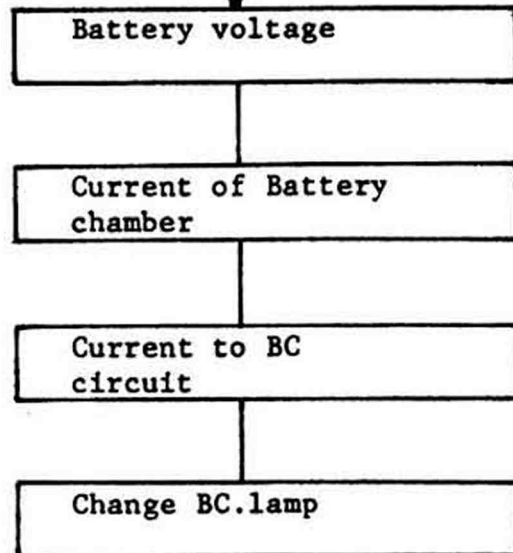
1st curtain bounce

(See 4-4)



BC.lamp not illuminate

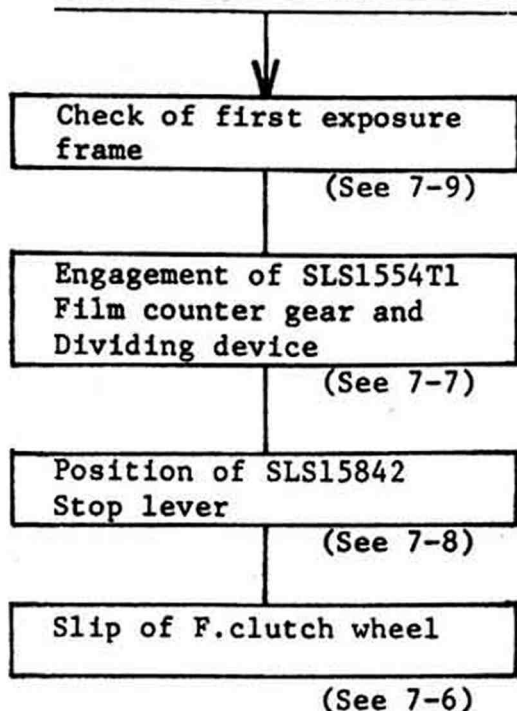
(See 8-4)



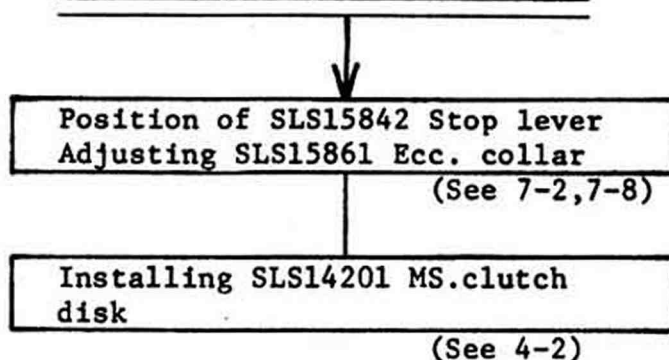
Trouble Shooting

No.3 Film transport

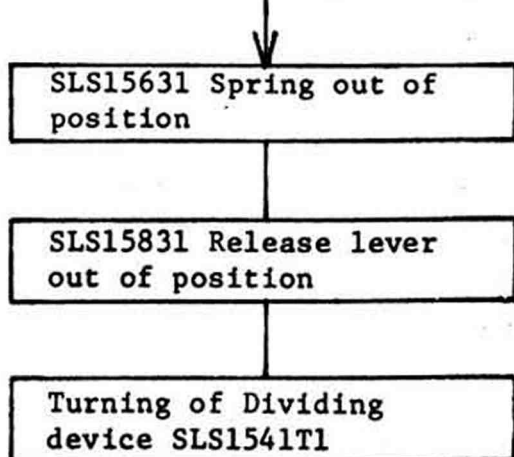
Overlap between exposure frames
Lack of last exposure frame



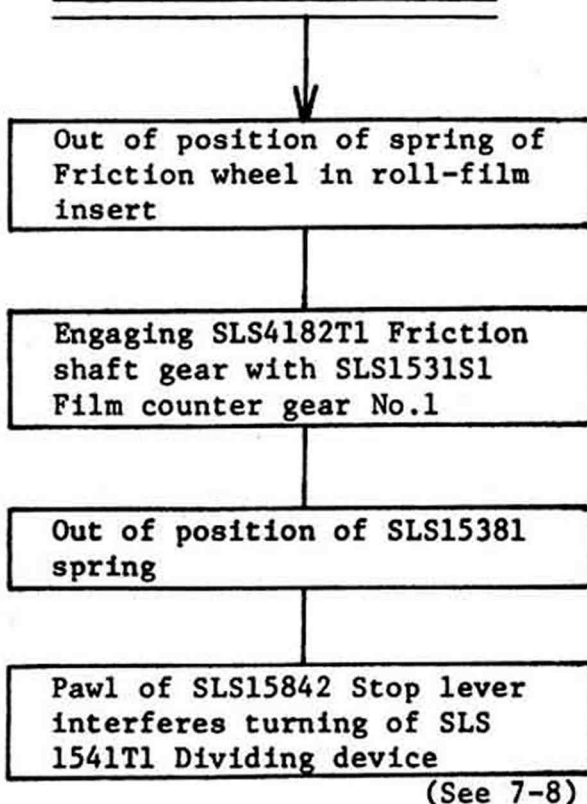
Film winding is stopped on way
from "S" to No.1



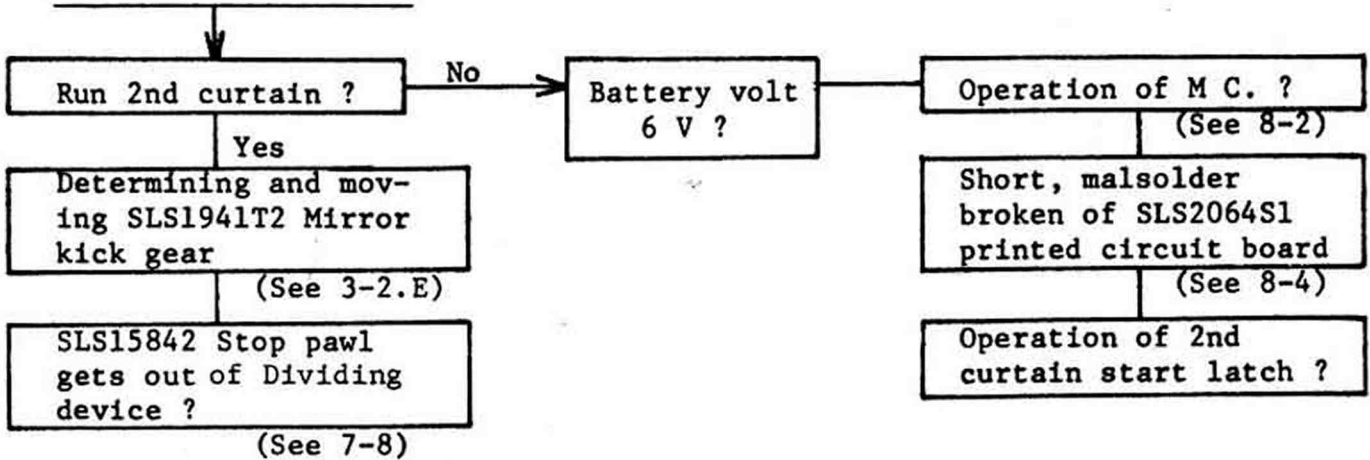
Film counter not reset
to its start position
(See 7-5)



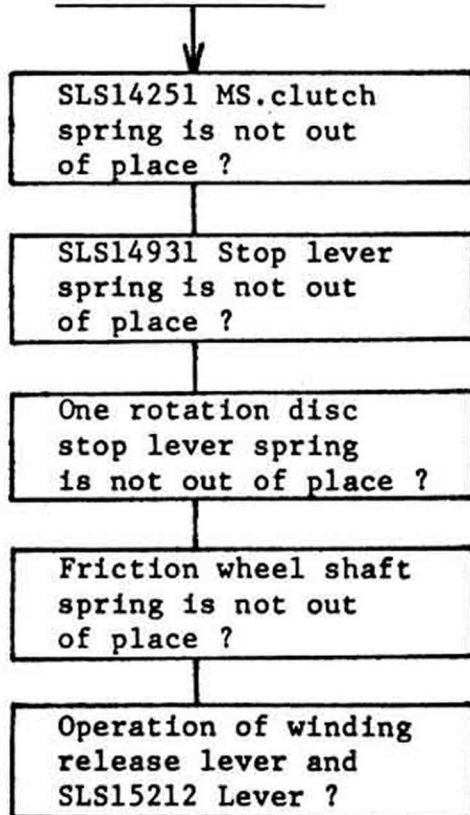
Not advance film exposure
counter



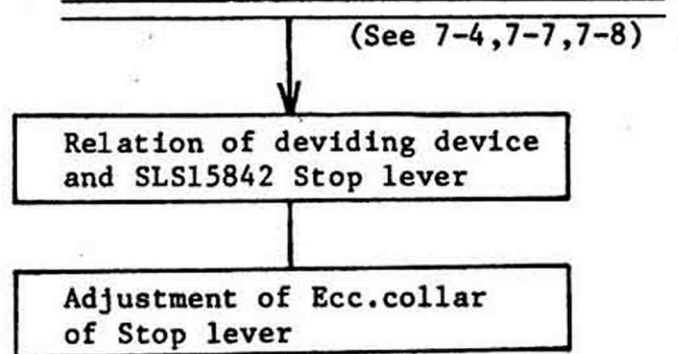
Can not Wind Shutter



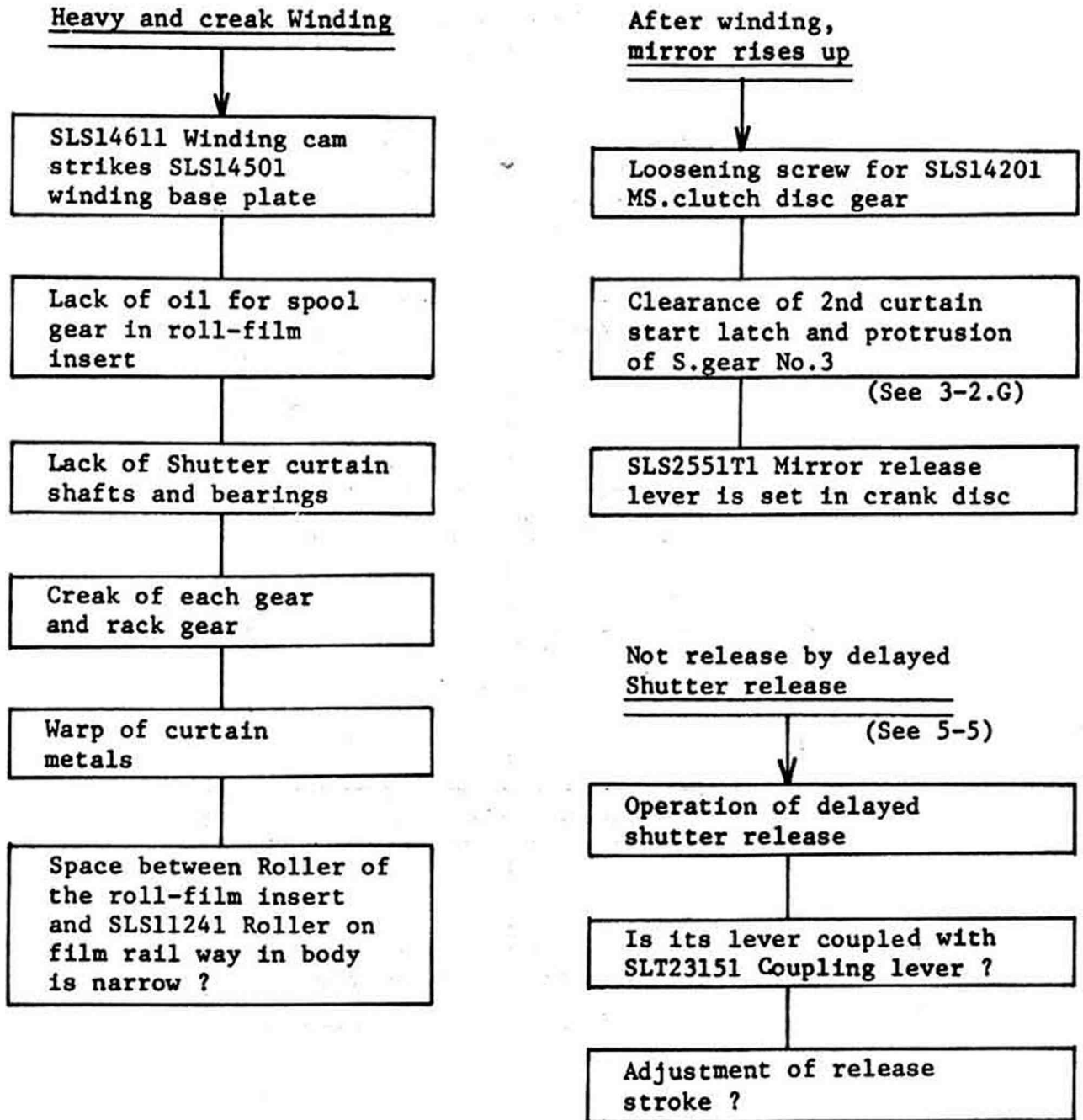
Slip of Winding



After 15 exposures (30 exposures), film winding is locked



Note : Film advance would not be made by a single revolution of film advance crank or knob, but it will be made by two revolution with empty spool.



Note : If so, change the both
SLS41411 Shaft bearing
and SLS41531 Shaft bearing to new ones.

Battery exhaustion

(See 8-4)

Touch of main switch
SW1 contacts ?

Operation of Moving Coil ?

Short of leadwire for MC. ?
(White and Brown)

Short of leadwire for
Battery chamber ?

Short of other circuit ?

Short in P.D Prism finder
circuit ?